

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450
Alexandria, Virginia 22313-1450
www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,840	03/01/2006	Joachim Schmitt	SCHM3001/REF	. 8834
23364 7590 06/25/2007 BACON & THOMAS, PLLC 625 SLATERS LANE			EXAMINER	
			SWARTZ, RODNEY P	
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1645	
			MAIL DATE	DELIVERY MODE
		•	06/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/538,840	SCHMITT ET AL.				
		Examiner	Art Unit				
		Rodney P. Swartz, Ph.D.	1645				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA						
- Exter after - If NO - Failu Any	nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 10 May 2007.						
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	4) Claim(s) <u>1-15,17,18,23,25 and 26</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u> </u>	5) Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-15,17,18,23,25 and 26</u> is/are rejected.						
· —	☐ Claim(s) <u>2,4,5,7-9,17 and 18</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers	•					
9)⊠	The specification is objected to by the Examine	r. .					
10)⊠ The drawing(s) filed on <u>13 June 2005</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority (ınder 35 U.S.C. § 119	·	•				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		_					
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🛛 Infor	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 8/05.	5) Notice of Informal P 6) Other:					

Art Unit: 1645

DETAILED ACTION

1. Applicants' Response to Non-compliant Amendment, received 10 May 2007, is acknowledged. Claims 3, 4, 6, 10, 11, 12, 13,17, 23 have been amended. Claims 16, 19-22, and 24 have been canceled.

2. Claims 1-15, 17, 18, 23, 25, and 26 are pending and under consideration.

Specification

3. The disclosure is objected to because of the following informalities:

Pages 1-3, 14-16, 33, and 34 contain reference citations which are incomplete, i.e., they only list author and year.

Page 3, line 9, "myelinisation" should be "myelinization"; line 19 "helicobacter pylorl" should be "Helicobacter pylorl".

Page 5, lines 6 and 8, "hybridise" should be "hybridize"; line 19, "characterised" should be "characterized".

Page 6, line 4, "characterised" should be "characterized".

Page 7, lines 6 and 9, "characterised" should be "characterized".

Page 9, last line, "eucaryontic" should be "eucaryotic".

Page 10, line 1, "procaryontic" should be "procaryotic"; line 9, "characterised" should be "characterized".

Page 13, line 18, what is "de-" to mean?

Page 15, line 15, "dehydrolyse" should be "dehydrolyze"; line 19, "fig." should be "Fig."; line 26, "utilisation" should be "utilization".

Page 16, line 12, "characterised" should be "characterized".

Art Unit: 1645

Page 20, lines 13, 24, and 25, "hybridisation" should be "hybridization"; line 20, "synthesised" should be "synthesized".

Page 21, line 5, "characterised" should be "characterized"; line 6, "also by produced" should be "also be produced"; line 13, "hybridises" should be "hybridizes".

Page 22, lines 6 and 14, "hybridise" should be "hybridize"; line 13, "synthesised" should be "synthesized"; line 21, "to be understand as" should be "to be understood as"; lines 22 and 25, "hybridised" should be "hybridized"; line 25, "hybridisation" should be "hybridization".

Page 23, line 15, "synthesised" should be "synthesized"; line 23, "hybridise" should be "hybridize"; line 24, "inhibitied" should be "inhibited".

Page 27, line 20, "procaryontic" should be "procaryotic".

Page 28, line 22, "homolous" should be "homologous"; line 27, "Escherichia" should be in italics.

Page 29, lines 1 and 2, the bacterial names should be in italics.

Page 31, line 8, "lysated" should be "lysed".

Page 32, line 2, "summarised" should be "summarized".

Page 33, line 17, "neutralised" should be "neutralized".

Appropriate correction is required.

Drawings

4. M.P.E.P. §2422.02, third paragraph, recites that "the sequence identifier ("SEQ ID NO:X") must be used, either in the drawing or in the Brief Description of the Drawings." Figures 1 and 3 do not contain the required sequence identifiers. Appropriate correction is required.

Art Unit: 1645

5. Figure 1 is objected to because the figure is labeled "Bild" 1.

Figure 3 is objected to because the figure is labeled "Bild" 3.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

- 6. Claim 2 is objected to because of the following informalities: line 2, "catalyses" should be "catalyzes". Appropriate correction is required.
- 7. Claim 4 is objected to because of the following informalities: line 1, "hybridises" should be "hybridizes". Appropriate correction is required.
- 8. Claim 5 is objected to because of the following informalities: line 1, "hybridises" should be "hybridizes"; line 3, "micoorganisms" should be "microorganisms"; line 3, "Trypanosoma" should be in italics. Appropriate correction is required.

Art Unit: 1645

9. Claim 7 is objected to because of the following informalities: line 2, "characterised" should be "characterized". Appropriate correction is required.

- 10. Claim 8 is objected to because of the following informalities: line 1, "characterised" should be "characterized". Appropriate correction is required.
- 11. Claim 9 is objected to because of the following informalities: line 1, "characterised" should be "characterized". Appropriate correction is required.
- 12. Claim 17 is objected to because of the following informalities: line 2, "characterised" should be "characterized". Appropriate correction is required.
- 13. Claim 18 is objected to because of the following informalities: line 1, "characterised" should be "characterized". Appropriate correction is required.

Claim Rejections - 35 USC § 101

14. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

15. Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims read on products of nature, i.e., nonisolated polynucleotides which read on whole bacterial polynucleotides within live bacteria.

16. Claims 6-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims read on products of nature, i.e., nonisolated polypeptides which read on whole bacterial polypeptides within live bacteria.

Art Unit: 1645

Claim Rejections - 35 USC § 112

17. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

18. Claims 3, 6, 7, 10-15, 17, 18, and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is uncertain what the metes and bounds are for a sequence being "in accordance with" another sequence.

19. Claims 3 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are drawn to sequences which are "derived" from other polynucleotides. It is unclear what the metes and bounds of this term encompasses.

20. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is drawn to a polypeptide encoded by a polynucleotide which "comprises" a nucleic acid sequence in accordance with the polynucleotide of claim 1. Because of the open language of the claim, i.e., "comprises", the encoding nucleic acid sequence may contain

Art Unit: 1645

unknown regions on either end of the polynucleotide of claim 1. Thus, the claim polypeptide may come from these unknown regions and therefore be unknown in sequence or function.

21. Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The instant claim is drawn to a "pharmaceutical" composition.

M.P.E.P. §2164.01(c), paragraph 3, recites:

When a compound or composition claim is limited by a particular use, enablement of that claim should be evaluated based on that limitation. See in re Vaeck, 947 F.2d 488, 495, 20 USPQ2d 1438, 1444 (Fed. Cir. 1991).

Steadman's Medical Dictionary (26th Edition, 1995) defines "pharmaceutical" as "relating to pharmacy or to pharmaceutics"; "pharmacy" as "the practice of preparing and dispensing drugs", and "drug" as "Therapeutic agent; any substance, other than food, used in the prevention, diagnosis, alleviation, treatment, or cure of disease"

While the definition of "pharmaceutical" is broad, it is not so broad to cover any use of a substance on or in the body of a subject, only those uses intended to prevent, diagnose, alleviate, treat, or cure a disease within the animal to which the substance was administered.

In the instant specification does not teach how to use the composition, without undue experimentation, for the prevention, diagnosis, alleviation, treatment, or cure of a disease in the animal to which the substance is administered.

22. Claims 6, 7, 12, 17, 18, 23, and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6, 7, 12 recite the phrase "functional equivalents".

Art Unit: 1645

The specification, page 17, lines 1-6, defines "functional equivalents" as polypeptides different to these which, moreover, have the desired biological activity in accordance with the above definition, and that "functional equivalents" should be understood as being mutants which in at least one of the sequence positions specified above have an amino acid other that that precisely specified but which despite this have one of the biological activities specified here. Thus, the definition is unclear because: 1) it designates the term as a polypeptide which is merely "different to" the listed polypeptides, and 2) it designates the term as mutants which have any/all amino sequence changes but which have one of the biological activities specified "here" but which is not actually designated as required biological activities.

Claims 17, 18, 23, and 26 depend from the claims, but do not clarify the issue.

23. Claim 10 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear specifically to what the claims are referring by utilizing the term "Material" or "Materials".

Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is no period at the end of the claim, and therefore the unfinished claim is indefinite. The period was deleted by the Preliminary Amendment.

24. Claim 25 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 1645

The phraseology of the claim renders it unclear when the claim recites "if required". It

in not clear what is or is not required for the isolation of said enzyme.

Conclusion

25. No claims are allowed.

26. Any inquiry concerning this communication or earlier communications from the Examiner

should be directed to Rodney P. Swartz, Ph.D., Art Unit 1645, whose telephone number is (571)

272-0865. The examiner can normally be reached on Monday through Thursday from 9:00 AM

to 7:30 PM EST.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

Supervisor, Jeffrey Siew, can be reached on (571)272-0787.

The fax phone number for the organization where this application or proceeding is

assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RODNEY P SWARTZ, PH. PRIMARY EXAMINER

Art Unit 1645

June 18, 2007